

Claims

1. Pharmaceutical composition that can be obtained by mixing at least one active ingredient with at least one extrusion additive from the group of polyalcohols esterified with fatty acids and joint melt extrusion.

2. Pharmaceutical composition according to claim 1, characterized in that the extrusion additive is a sugar fatty acid ester, polyethylene glycol fatty acid ester or a glycerol fatty acid ester.

3. Pharmaceutical composition according to claim 1, wherein the polyalcohols are diols, glycols, glycerol, mono-, di- or oligosaccharides, sugar alcohols, sorbitol, inositol, pentaerythritol, trimethylolpropane or polymer compounds with several hydroxy groups, polyalkylene glycols, polyethylene glycols, polyether polyols and polyester polyols.

4. Pharmaceutical compositions according to claim 1, wherein the fatty acids have 1 to 31 carbon atoms and are unbranched and/or branched and/or saturated and/or unsaturated.

5. Pharmaceutical composition according to at least one of the above claims, wherein as an additional adjuvant, polyvinylpyrrolidone, polyethylene glycol or vinylpyrrolidone-vinyl acetate copolymer or a mixture that consists of the above-mentioned substances is contained.

6. Pharmaceutical composition according to at least one of the above claims, wherein the melt extrusion is carried out without additional heat input.

7. Pharmaceutical composition according to at least one of claims 1 to 6 that can be obtained by mixing 17- β -estradiol, polyvinylpyrrolidone and saccharose monopalmitate and joint melt extrusion at 60°C.

8. Pharmaceutical composition according to at least one of claims 1 to 6 that can be obtained by mixing 17- β -estradiol, polyvinylpyrrolidone and glycerol tribehenate and joint melt extrusion at 60°C.

9. Pharmaceutical composition according to at least one of claims 1 to 6 that can be obtained by mixing ethinylestradiol, polyvinylpyrrolidone and saccharose monopalmitate and joint melt extrusion at 60°C.

10. Process for the production of pharmaceutical compositions in which at least one active ingredient is mixed with at least one extrusion additive from the group of polyalcohols esterified with fatty acids, and the mixture that is thus obtained is then subjected to a joint melt extrusion.

11. Process according to claim 10, wherein the melt extrusion is carried out without heat input.

12. Process according to claim 10 or 11, wherein in addition, the extruded mixture is ground and further processed into pharmaceutical agents with additional pharmaceutically compatible adjuvants and additives.

13. Pharmaceutical agents that contain a pharmaceutical composition according to claim 1 together with additional pharmaceutically compatible adjuvants and additives.

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14. Use of polyalcohols that are esterified with fatty acids as extrusion additives for the production of pharmaceutical compositions.

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